Intelligent Repeater System Zone-based Indoor Location with GPS Simulators





Indoor positioning with standard GPS-based devices is highly desirable to seamlessly track people and assets from areas with clear-view of the sky into GPS-denied environments. Whereas GPS repeaters have significant drawbacks for positioning in indoor or underground locations, Spectracom's intelligent GPS repeater system offers a cost-effective, zone-based indoor location solution.

Similar to a GPS repeater, this system uses an outdoor GPS antenna. However the intelligent repeater system uses a GPS synchronization unit to collect the live GPS data and distribute it via a network, with precise timing signals, to GPS simulators located in different zones in the coverage area. The simulators are configured to broadcast signals that standard GPS receivers calculate as a fixed location within the zone. The position resolution is determined only by the number of simulators deployed.

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For more information about Spectracom's intelligent GPS repeater system, see our technical paper, Zone-based Indoor Location using GNSS Simulators.



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